AMENDMENTS TO THE CLAIMS

1	1. (Previously Presented) A computer system to provide one or more produc	t	
2	selections to a user in accordance with product related data provided by the user, the computer		
3	system comprising:		
4	a database storing product configuration information, wherein the product configuration		
5	information comprises product identifier information corresponding to product		
6	attribute information for multiple product configurations;		
7	a memory;		
8	a processor coupled to the memory and the database;		
9	a data receiving module, stored in the memory, to receive the product related data from		
10	the user through a communication link coupled between a data processing system	n	
11	of the user and the data receiving module;		
12	a filter service module, stored in the memory, to (i) receive one or more product attribute	es	
13	and (ii) identify one or more of the product configurations stored in the database		
14	that each include the one or more product attributes, if the product related data		
15	represents the one or more product attributes;		
16	a configuration service module, stored in the memory, to (i) receive a product identifier		
17	and to (ii) identify each combination of attributes stored in the database that		
18	corresponds to the product identifier, if the product related data represents the		
19	product identifier; and		
20	a presentation module, stored in the memory, to (i) provide each identified product		
21	configuration as a product selection to the user via the communication link if the	:	
22	product related data represents the one or more product attributes and (ii) provide	e	
23	one or more product selections to the user via the communication link, wherein,	if	
24	the product related data represents the product identifier, each product selection		
25	represents a product identifier and a respective combination of attributes		
26	identified as corresponding to the product identifier.		
1	2. (Previously Presented) The computer system of claim 1 wherein the		
2	product configurations are pre-generated product configurations, the computer system further	r	
3	comprising:		

4	a software configuration engine stored in the memory to generate the pre-generated		
5	product configurations.		
1	3. (Previously Presented) The computer system of claim 1 wherein the data		
2	receiving module is further configured to receive data indicating a user selected product,		
3	wherein the selected product corresponds to one of the identified product configurations, and		
4	the data receiving module is further configured to receive product configuration selections		
5	from the user to further configure the selected product, the computer system further		
6	comprising:		
7	a software configuration engine, stored in the memory, to generate configured product		
8	data corresponding to the product configuration selections associated with the		
9	selected product and in accordance with the product configuration information;		
10	and		
11	wherein the presentation module is further configured to present the configured product		
12	data to the user via the communication link.		
13	4. (Previously Presented) The computer system of claim 1 wherein the product		
14	configurations are pre-generated product configurations, the system further comprising a		
15	needs analysis module, stored in the memory, to (i) process the received product related data		
16	and (ii) determine which of the service modules to provide the product related data, wherein:		
17	said filter service module is further configured to provide a product identifier to said		
18	needs analysis module in response to one or more product attributes received from		
19	said needs analysis module,		
20	said product identifier identifies a pre-generated product configuration, and		
21	said each of the one or more product attributes is an attribute of said pre-generated		
22	product configuration.		
1	5. (Previously Presented) The computer system of claim 4, wherein		
2	said filter service module is further configured to use said to retrieve said product		
3	identifier from said database.		
1	6. (Previously Presented) The computer system of claim 1, wherein said		
2	database contains product identifier information that identifies each product configuration and		

reference data that links the one or more product attributes to a product configuration.

- 7. (Previously Presented) The computer system of claim 6, wherein the product configurations are pre-generated product configurations and said database comprises: a configuration table storing the pre-generated product configurations; and an attribute table storing the one or more product attributes.
- 8. (Previously Presented) The computer system of claim 7, wherein said configuration table contains said product identifier.
- 9. (Previously Presented) The computer system of claim 7, wherein the product configurations are pre-generated product configurations and said attribute table comprises an attribute record comprising an attribute field containing said one or more product attributes, and an intersection field containing a reference to at least one of the pre-generated product configurations, and said configuration table comprises a configuration record comprising a configuration field containing said pre-generated product configurations, and an identifier field containing said product identifier.
 - 10. (Previously Presented) The computer system of claim 9, wherein each pre-generated product configuration describes a configuration of a product that is an allowable product configuration in accordance with product rules governing allowable combinations of product attributes, said attribute information describes an attribute of said product, and said pre-generated product configuration of said product includes said one or more product attributes.
- 11. (Previously Presented) The computer system of claim 9, the system further comprising a needs analysis module, stored in the memory, to (i) process the received product related data and (ii) determine which of the service modules to provide the product related data, wherein
 - said needs analysis module is configured to access said product configuration information through said filter service.

1	12.	(Previously Presented)	The computer system of claim 9, wherein
2	said refe	erence allows said filter serv	vice module to access said configuration record by
3	V	rirtue of said filter service r	module being configured to access said attribute record
4	ι	ising said one or more prod	luct attributes.
5	10	(D. 1. D. 1. D.	
1	13.	(Previously Presented)	The computer system of claim 1, the system further
2		•	ored in the memory, to (i) process the received product
3		. ,	the service modules to provide the product related
4		•	odule is configured to permit identification of at least
5	one of the pro	oduct configurations based	on the product identifier.
1	14.	(Canceled).	
1	15.	(Previously Presented)	The computer system of claim 1, the system further
2	comprising a	needs analysis module, sto	ored in the memory, to (i) process the received product
3	related data a	and (ii) determine which of	the service modules to provide the product related
4	data, and who	erein said configuration ser	vice module is configured to provide a configuration
5	list to said needs analysis module in response to a product identifier received from said needs		
6	analysis mod	ule.	
1	16.	(Previously Presented)	The computer system of claim 15, wherein
2	said con	figuration list is a list of the	e available product attributes of said product.
1	17.	(Previously Presented)	The computer system of claim 15, wherein
2	said con	figuration list is a list of co	nfigurations of said product.
1	18.	(Previously Presented)	The computer system of claim 15, wherein
2	said con	figuration service is config	ured to use said product identifier to generate said
3	C	configuration list from infor	rmation stored in said database.
1	19.	(Previously Presented)	The computer system of claim 1, wherein
2	said data	abase contains product iden	tifier information.
1	20.	(Previously Presented)	The computer system of claim 19, wherein said

2	database comprises:		
3	a configuration table containing said product identifier and said product configuration		
4	information.		
1	21. (Previously Presented) The computer system of claim 20, the system		
2	further comprising a needs analysis module, stored in the memory, to (i) process the received		
3	product related data and (ii) determine which of the service modules to provide the product		
4	related data, and wherein		
5	said needs analysis module is configured to access said product configuration information		
6	through said product identifier to said configuration service module, and		
7	said configuration service module is configured to access said database by virtue of being		
8	configured to access said database using said product identifier.		
1	22. (Previously Presented) The computer system of claim 20, wherein the		
2	product configurations are pre-generated product configurations and said configuration		
3	table comprises a configuration record comprising		
4	a configuration field containing said pre-generated product configurations, and		
5	an identifier field containing said product identifier.		
1	23. (Previously Presented) The computer system of claim 22, wherein		
2	said pre-generated product configurations describe a product previously configured and		
3	saved by the user, and		
4	said product identifier identifies said configuration of said product.		
1	24. (Previously Presented) A computer program product encoded in a		
2	computer readable medium, the computer program product comprising code executable on a		
3	computer system to provide one or more product selections to a user in accordance with		
4	product related data provided by the user, the code comprising instructions to:		
5	receive the product related data from the user through a communication link coupled		
6	between a data processing system of the user and the computer system;		
7	access a database storing product configuration information, wherein the product		
8	configuration information comprises product identifier information corresponding		
9	to product attribute information for multiple product configurations:		

10	receive one or more product attributes and identify one or more product configurations	
11	stored in the database that each include the one or more product attributes, if the	
12	product related data represents the one or more product attributes;	
13	receive a product identifier and identify each combination of attributes stored in the	
14	database that corresponds to the product identifier, if the product related data	
15	represents the product identifier, if the product related data represents the product	
16	identifier;	
17	provide each identified product configuration as a product selection to the user via the	
18	communication link if the product related data represents the one or more product	
19	attributes; and	
20	provide one or more product selections to the user via the communication link, wherein,	
21	if the product related data represents the product identifier, each product selection	
22	represents a product identifier and a respective combination of attributes	
23	identified as corresponding to the product identifier.	
23	identified as corresponding to the product identifier.	
24	25. (Previously Presented) The computer program product of claim 24,	
25	wherein the code further comprises code to permit identification of a product based on the one	
26	or more product attributes.	
1	26. (Previously Presented) The computer program product of claim 24,	
2	wherein the code further comprises code to:	
3	receive data indicating a user selected product, wherein the selected product corresponds	
4	to one of the product selections;	
5	receive product configuration selections from the user to further configure the selected	
6	product;	
7	generate configured product data corresponding to the product configuration selections	
8	associated with the selected product and in accordance with product rules stored	
9	in a memory that govern allowable combinations of the product features; and	
10	provide the configured product data to the user via the communication link.	
11	27. (Previously Presented) The computer program product of claim 26,	
12	wherein the product configurations are pre-generated product configurations and said product	

13	identifier identifies a at least one of the pre-generated product configurations, and		
14	said each of said one or more attributes is an attribute of said product.		
1	28. (Previously Presented) The computer program product of claim 27,		
2	wherein the code further comprises code to:		
3	use each of said one or more attributes to retrieve said product identifier from said		
4	database.		
1	29. (Previously Presented) The computer program product of claim 26 wherein		
2	the product configurations are pre-generated product configurations and the computer		
3	program product further comprises a data structure, the data structure comprising information		
4	resident in said database, the information comprising:		
5	product identifiers associated with each pre-generated product configuration and		
6	reference data that links the one or more product attributes to each pre-generated		
7	product configuration.		
1	30. (Previously Presented) The computer program product of claim 29,		
2	wherein the product configurations are pre-generated product configurations and said data		
3	structure further comprises:		
4	a configuration table storing the pre-generated product configurations, and		
5	an attribute table to store one or more product attributes.		
1	31. (Previously Presented) The computer program product of claim 30,		
2	wherein		
3	said configuration table contains said product identifier said attribute table contains said		
4	one or more attributes.		
1	32. (Previously Presented) The computer program product of claim 30,		
2	wherein the product configurations are pre-generated product configurations and		
3	said attribute table comprises an attribute record comprising an attribute field containing		
4	said one or more product attributes, and an intersection field containing a		
5	reference to at least one of the pre-generated product configurations, and		
6	said configuration table comprises a configuration record comprising a configuration		

8		containing said product ider	ntifier.
1	33.	(Previously Presented)	The computer program product of claim 32,
2	wherein each	pre-generated product con	figuration describes a configuration of a product that
3	is an allowab	le product configuration in	accordance with product rules governing allowable
4	combinations	s of product attributes;	
5	said attr	ibute information describes	an attribute of said product, and
6	said pre-	generated product configur	ration of said product includes said one or more
7	product attributes.		
1	34.	(Previously Presented)	The computer program product of claim 32,
2	wherein the o	code further comprises code	e to:
3	access sa	aid product identifier inform	nation using said attribute information.
1	35.	(Previously Presented)	The computer program product of claim 32,
2	wherein		
3	said refe	erence allows the code to ac	cess said configuration record by accessing said
4	а	ttribute record using said o	ne or more product attributes.
1	36.	(Canceled).	
1	37.	(Previously Presented)	The computer program product of claim 24,
2	wherein said	code further comprises cod	le to permit identification of a product configuration
3	based on the	product identifier.	
1	38.	(Canceled).	
1	39.	(Previously Presented)	The computer program product of claim 24,
2	wherein the o	code further comprises a ne	eds analysis module.
1	40.	(Previously Presented)	The computer program product of claim 39,
2	wherein said	code further comprises cod	le to:
3	provide	a configuration list to said	needs analysis module in response to the product
4	i	dentifier received from said	l needs analysis module.

1	41.	(Previously Presented)	The computer program product of claim 40,	
2	wherein			
3	said configuration list is a list of the available product attributes of said product.			
1	42.	(Previously Presented)	The computer program product of claim 40,	
2	wherein said	configuration list is a list o	f configurations of said product.	
1	43.	(Previously Presented)	The computer program product of claim 40,	
2	wherein said	code further comprises coo	le to:	
3	use said	product identifier to genera	ate said configuration list from information stored in	
4	S	said database.		
1	44.	(Canceled).		
1	45.	(Previously Presented)	The computer program product of claim 29,	
2	wherein said	wherein said data structure further comprises:		
3	a configuration table containing said product identifier.		d product identifier.	
1	46.	(Previously Presented)	The computer program product of claim 45,	
2	wherein said	code further comprises coo	le to:	
3	access s	aid product configuration in	nformation by virtue of supplying said product	
4	i	dentifier to a configuration	service, and	
5	access s	aid database by virtue of be	eing configured to access said database using said	
6	product identifier.			
1	47.	(Previously Presented)	The computer program product of claim 45,	
2	wherein			
3	said con	figuration table comprises	a configuration record comprising a configuration	
4	f	field containing said pre-gen	nerated product configurations, and an identifier field	
5	C	containing said product ider	ntifier.	
1	48.	(Previously Presented)	The computer program product of claim 47,	
2	wherein			
3	said pro	duct configuration informat	tion describes a configuration of said product that is an	

4	allowable product configuration in accordance with product rules governing		
5	allowable combinations of product attributes, and		
6	said product identifier information identifies said pre-generated configuration of said		
7	product.		
1	49. (Canceled).		
1	50. (Canceled).		
1	51. (Previously Presented) A method to provide one or more product selections		
2	to a user in accordance with product related data provided by the user, the method comprising:		
3	receiving the product related data from the user through a communication link coupled		
4	between a data processing system of the user and the computer system;		
5	processing the received product related data using resources of the computer system;		
6	receiving one or more product attributes and identifying one or more product		
7	configurations stored in a database that each include the one or more product		
8	attributes, if the product related data represents the one or more product attributes;		
9	receiving a product identifier and identifying each combination of attributes stored in the		
10	database that corresponds to the product identifier, if the product related data		
11	represents the product identifier, if the product related data represents the product		
12	identifier;		
13	providing each identified product configuration as a product selection to the user via the		
14	communication link if the product related data represents the one or more product		
15	attributes; and		
16	providing one or more product selections to the user via the communication link,		
17	wherein, if the product related data represents the product identifier, each product		
18	selection represents a product identifier and a respective combination of attributes		
19	identified as corresponding to the product identifier.		
1	52. (Previously Presented) The method of claim 51, wherein the product		
2	configurations are pre-generated product configurations and		
3	said product identifier information identifies pre-generated product configurations, and		
4	each of said pre-generated product configuration represents a product having one or more		

5	of the attributes.	
1	53. (Previously Presented) The method of claim 52, further comprising:	
2	causing a needs analysis module to provide said one or more attributes to a filter service;	
3	and	
4	causing said filter service to return said product identifier to said needs analysis module.	
1	54. (Previously Presented) The method of claim 51, wherein the product	
2	configurations are pre-generated product configurations, the method further comprising:	
3	querying a database of said computer system, wherein querying said database comprises:	
4	accessing an attribute table of said database using said one or more attributes;	
5	identifying at least one database record comprising the product identifier and said	
6	attribute information; and	
7	accessing said said database record to identify a pre-generated product	
8	configuration associated with said one or more attributes.	
1	55. (Previously Presented) The method of claim 54, wherein	
2	said product identifier is associated with said pre-generated product configurations, and	
3	each of said pre-generated product configurations represents a product having said one or	
4	more attributes.	
1	56. (Previously Presented) The method of claim 55, wherein	
2	a configuration table comprises said pre-generated product configurations.	
1	57. (Previously Presented) The method of claim 51 further comprising:	
2	providing said product identifier to a configuration service;	
3	identifying said product configuration corresponding to said product identifier by causing	
4	said configuration service to query a database using said product identifier; and	
5	causing said configuration service to return said identified product configuration.	
1	58. (Previously Presented) The method of claim 57, wherein the product	
2	configurations are pre-generated product configurations and said product identifier is	
3	associated with a pre-generated product configuration in said database.	

1	59.	(Previously Presented)	The method of claim 58, further comprising:		
2	causing a needs analysis module to provide said product identifier to said configuration				
3	service; and				
4	causing said configuration service to return said pre-generated product configuration to				
5	9	said needs analysis module.			
1	60.	(Previously Presented)	The method of claim 57, wherein the product		
2	configuration	ns are pre-generated produc	t configurations and said querying said database		
3	comprises:				
4	accessin	g a configuration table of s	aid database using said product identifier to identify		
5	said pre-generated product configuration.				
1	61.	(Previously Presented)	The method of claim 60, wherein		
2	each of	said pre-generated product	are associated with said product identifier.		
1	62.	(Previously Presented)	The method of claim 51 further comprising:		
2	receivin	receiving data indicating a user selected product, wherein the selected product			
3	(corresponds to one of the id	entified product configurations;		
4	receivin	g product configuration sele	ections from the user to further configure the selected		
5	1	product;			
6	generati	ng configured product data	corresponding to the product configuration selections		
7	8	associated with the selected	product and in accordance with the product		
8	(configuration information; a	and		
9	providir	ng the configured product da	ata to the user via the communication link.		
1	63.	(Canceled).			
1	64.	(Previously Presented)	The method of claim 51, wherein said product		
2	related data i	ncludes data related to a ve	hicle.		
1	65.	(Previously Presented)	The method of claim 64, wherein said product		
2	selections co	mprise a make of said vehic	ele.		
1	66.	(Previously Presented)	The method of claim 64, wherein said product		

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2	selections comprise a model of said vehicle.		
1	67. (Previously Presented) The method of claim 64, wherein said product		
2	selections comprise a trim level of said vehicle.		
1	68. (Previously Presented) The method of claim 64, wherein said product		
2	selections comprise an equipment level of said vehicle.		
1	69. (Previously Presented) The method of claim 64, wherein said product		
2	selections comprise one of a price range, a vehicle type, an engine type, a fuel economy, an		
3	interior feature and a safety feature.		
1	70. (Currently Amended) An apparatus to provide one or more product selections		
2	to a user in accordance with product related data provided by the user, the apparatus		
3	comprising:		
4	means for receiving the product related data from the user through a communication link		
5	coupled between a data processing system of the user and the computer system;		
6	means for processing the received product related data using resources of the computer		
7	system;		
8	means for receiving one or more product attributes and identifying one or more pre-		
9	generated product configurations stored in a database that each include the one or		
10	more product attributes, if the product related data represents the one or more		
11	product attributes;		
12	receiving a product identifier and identifying each combination of attributes stored in the		
13	database that corresponds to the product identifier, [[,]] if the product related		
14	represents the product identifier;		
15	means for providing each identified pre-generated product configuration as a product		
16	selection to the user via the communication link if the product related data		
17	represents the one or more product attributes; and		
18	means for providing one or more product selections to the user via the communication		
19	link, wherein, if the product related data represents the product identifier, each		
20	product selection represents a product identifier and a respective combination of		
21	attributes identified as corresponding to the product identifier.		

1	71. (Previously Presented) The apparatus of claim 70 further comprising:
2	means for receiving data indicating a user selected product, wherein the selected product
3	corresponds to one of the identified pre-generated product configurations;
4	means for receiving product configuration selections from the user to further configure
5	the selected product;
6	means for generating configured product data corresponding to the product configuration
7	selections associated with the selected product and in accordance with the produc
8	configuration information; and
9	means for providing the configured product data to the user via the communication link.
1	72. (Previously Presented) The apparatus of claim 70 wherein the product related
2	data includes data related to a vehicle.
1	73. (Previously Presented) The computer system of claim 1 wherein the product
2	related data includes data related to a vehicle.
1	74. (Previously Presented) The computer program product of claim 24 wherein the

product related data includes data related to a vehicle.

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